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UNITED STATES DEPARTMENT OF AGRICULTURE Bureau of Agricultural Economics

In cooperation with

NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS

APPLE MANUFACTURES

THE USE OF APPLES IN CIDER MILLS,

EVAPORATORS AND CANNERIES IN NEW YORK STATE

1937- 42

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Albany, New York June 1943



APPLE MANUFACTURES - 1937-42

In total volume and farm value of apples used, the 1942 processing season in New York was outstanding. Even though the number of plants operating was the least in the six years of record, the quantity of fruit handled was second only to that from the 1939 crop. The gross farm value of the 7,887,200 bushels of fruit purchased for use in cider mills, evaporators, and camneries was about \$3,975,000., nearly three-fifths greater than that used in 1941 when the quantity was somewhat less and more than six times that included in 1938 operations when a light crop and low prices grossed about \$630,000. to growers.

The increase in apples used for canning and for evaporating in 1942 was of importance. The sharp increase in the drying of skins, cores, and pomace over that of earlier years indicated additional interest in saving pectin-bearing residues.

Unused facilities available for processing of apples are indicated by the fact that there were listed as not operating in 1940, 1941 and 1942 the following: Cider mills, 197 in 1940, 161 in 1941, and 230 in 1942; evaporators, 38, 30 and 26; establishments canning apples or carrying on similar processes, 13, 9 and 10 respectively. In the main, the closed establishments were generally those having relatively small capacity and many of them were probably poorly equipped.

The totals of apples and products are believed comparably complete from year to year. In each year there have been a few establishments from which reports have not been available. In those cases, estimates on the best available basis have been included. Minor revisions for 1941 are included here.

The cooperation of the owners or operators of the establishments who furnished information concerning their own businesses is acknowledged with appreciation.

(The Bureau of Markets of the Department of Agriculture and Markets gave cooperation in obtaining reports. The compilations were made in the Bureau of Statistics.)

R. L. GILLETT, Director of Agricultural Statistics and Senior Agricultural Statistician

Table 1.- Apples and apple products in cider mills, evaporators, and canneries, New York, 1937-42

Year	: Cider mills :	Firene	* Camaniac	: Total
Character sections and a section to the section of	shments in operation			Phonesis assessment representation and the second s
1937	573	47	27	640
1938	452	29	22	500
1939	504	45	26	573
1940	383	19	27	427
1941	410	26	29	461
1942	315	42	27	374
				217
Apples	received, net bushe	ls 2/		
1937	4,434,300	1,284,800	1,873,100	7,592,200
1938	2,621,800	373,900	866,200	3,861,900
1939	4,772,900	1,207,100	2,381,900	8,361,900
1940	2,309,000	199,400	1,686,600	4,195,000
1941	3,769,000	536,700	3,022,600	7,328,300
1942	3,578,700	1,099,900	3,208,000	7,886,600
Experience of the second	y of apples (includ	ed above) from	THE SHAPE OF STREET, SALES AND ADDRESS OF THE PARTY AND ADDRESS OF THE	
1937	9,600	0000	1,000	10,600
1938	10,300	~	200	10,500
1939	6,800	om om	600	7,400
1940	5,800	යා	4,700	10,500
1941	11,700	om Emil American	5,800	17,500
1942	26,500	700	34,800	62,000
1	mand Care on	100 T	h= 2/	
1937	price paid for app	9.33	\$.43	\$.29
1938	.26	,28	\$047 058	034
1939	.18	.27	.43	. 26
1940	.28	.29	.75	.47
1941	.34	.57	. 1.19	.72
1942	o Lils	1.46	1.59	1.05
and butter	Δ emfrandn	com () confirms	م مو ن سد	
Average	date operations st	arted and stop	ped 4/	
COMMENSATION AND AND AND AND AND AND AND AND AND AN	Start Stop	Start Sto	The state of the s	. Stop
1937	COLOR CONTRACTOR CONTR	. Oct. 4 Dec	(25) PANERMAND MODELLING	Dec. 9
1938	Oct. 4 Nov. 30			
1.939	Oct. 2 Dec. 6			
1940	Oct. 7 Dec. 7	Oct.15 Nov		
1941	Oct. 4 Dec. 6	Oct. 3 Dec	. 9 Sept29	Dec.18
1942	Oct. 5 Dec. 4	Sept29 Dec	.22 Oct. 5	Jan. 3(1943)
	used for principal			
	ed for cider, bushel		tt man	2 FOR 000
1937	4,434,300	œ	66,700	4,501,000
1938	2,621,800	723	9,000	2,630,800
1939	4,772,900	යන	278,900	5,051,800
1940	2,309,000	cap	69,100	2,378,100
1941	3,769,000	¢æ	5,000	3,774,000
1.942	3,578,700	CCD	10,000	3,588,700

Table 1. - Apples and apple products in cider mills, evaporators, and canneries, New York, 1937-42 - Continued

TOSTS 0	Cider mills :	Evaporators	: Canneries	Total	(2gb-rs/lighs) viga 658a/shigg erredikstra
Street Company of the substance of the s	sed for principal p	White the wife with the transfer of the same of the sa	ন্ধনিকস্থান সাম্প্রত । এই ক্রমণ আর্কিকর্তার সংগ্রীর সংগ্রীর সংগ্রীর স্থানিক স্থানিক বিশ্বর স্থানিক স্থানিক স্থ বিশ্বনিক স্থানিক	, yarri sarini isa reshirenda. Isasi saaninda ii alaaninda ii alaaninda ii alaaninda ii alaaninda ii alaaninda	THE PROPERTY OF THE PERSON NAMED IN
"Street Statement as and and all to a statement of the continue of the continu	for drying, bushel	COLUMN TO COMPANY AND			
1937	ENO.	1,284,800	can	1,284,800	
1938	Ques.	373,900	cap	373,900	
1939	OST?	1,207,100	¢	1,207,100	
1.940	යා	199,400	æ	199,400	
1941	çua	536,700	4mo	536,700	
1942	ess.	1,099,900	. ша	1,099,900	
Used	for canned apples	and apple sau	ce, bushels		
1937	927)	Œ	1,657,700	1,657,700	
1938	CHO	ಚ್ಚುತ	790,100	790,100	
1939	QN ₂	¢to	1,987,800	1,987,800	
1940	QPS	œ	1,351,500	1,351,500	
1941	enc.	=	2,580,600	2,580,600	
1942	αω	සා	2,751,700	2,751,700	
Used	for other factory	products, bus	hels 6/		
1937	ALDER HER LEITER A BERLEICHE ALDER HILLEN FÖRER LEITHAUCH FEILE AND LANDER FAR VON STEINE FAR VON STEINE FÜR A TIED	And in the second state of the second se	148,700	148,700	
1938	CND	GO	67,100	67,100	
1939	FED.	CAD	115,200	115,200	
1.940	CERT	GEO	266,000	266,000	
1941	¢mo	cao	453,000	453,000	
1942	G.	CIID	446,300	446,300	,
Principal	products mac. :				
CONTRACTO NAN. JEST TRANSFER DAY CO.	er pressed, gallons	5/			
1937		ic disect	353,600	18,847,400	
	10,662,000	aic	146,000	10,808,000	
1.939	19,949,600		1,707,000	21,656,600	
1940	9,336,400	ක	627,600	9,964,000	
I. Thiste	16,599,100	CHEC	412,000	17,011,100	
1942	16,575,400	asp	311,600	16,887,000	
A source of	la company and income	:1 61			
	le juice, gallons j	W 9 W	695,000	3,360,300	
1940	2,665,300	980	806,400	3,620,800	
1941	2,814,400		348,500	3,685,000	
J. 942.	3,336,500	5300	54.0° 500	7,007,000	
CONTRACTOR	ed apples, pounds				
1937	(4°)	7,101,200	623	7,101,200	
1938	CHID	2,147,700	dia	2,147,700	
1939	rac	7,076,700	can:	7,076,700	
1940	130	869,000	an	869,000	
1941	King!	3,056,700	Cast	3,056,700	
1942	CE)	6,473,500	900	6,473,500	

Table 1. - Apples and apple products in cider mills, evaporators, and canneries, New York, 1937-42 - Concluded

Year :	Cider mills	: Evaporators	: Canneries	: Total	
Principal	products made:				
Dried	apple chops, p	ounds			
1937	co	727,000	080	727,000	
1938	හට	192,300	gio.	192,300	
1939	taxo	461,700	CBO	461,700	
1940	Case	469,400	CNED	469,400	
1941	0 123	284,500	æ	284,500	
1942	E S	356,700	aito	356,700	
7 0 0 1	4 0 4	3	p og gr	** /	
CHICANGO CONTRACTOR	skins and core	the company of the second company of the second company of the control of the second company of the second com	aste, pounds !	SCAP	
1937	ca Ca	2,426,300	CIC	2,426,300	
1938	(30)	104,000	CMD	104,000	
1939	en,	612,000	allo	612,000	
1940	90	454,200	යා	454,200	
1941	c s	1,419,200	tarc tarc	1,419,200	
1942	අත	3,587,100	සා	3,587,100	
Canno	d annles and an	nla couca duant	itu of annles	used for, bushels	
1937	a appier and ap		1,657,700	1,657,700	
1938	9 000	GED.	790,100	790,100	
1939	GED.	C II)	1,987,800	1,987,800	
1940	?	=	1,351,500	1,351,500	
1941	CEC		2,580,600	2,580,600	
1942	ca,	ÇC.	2,751,700	2,751,700	
T /4/~			22617T6100	~ g ! / ~ g ! OO	

^{1/} In a few cases operations of more than one type were carried on in a
 given establishment. The last column is the net number of establishments reporting, 7 joint operations having been noted in 1937, 3 in 1938,
2 in 1939, 4 in 1940, 4 in 1941, and 10 in 1942. "Custom" and "commercial"
mills are included.

^{2/} Net receipts. Apples received at canneries and reported transferred to cider mills are included in cider mill receipts and not in cannery receipts. Of these there were reported, in bushels: 1937-20,100; 1938-8,100; 1939-35,600; 1940-28,700; 1941-65,600: 1942-94,100. Part of the apples were reported as bushels and part as pounds. One bushel assumed to equal 48 pounds. All of the data relate to the crop produced in the year indicated even though processing frequently runs over into the next calendar year.

^{3/} These prices are the average of "average or prevailing prices" as reported, excluding cases where the special uses called for unusual grades, etc.

intermittent or unusual operations. In a number of cases, intermittent or unusual operations extended well into the following spring and are not included here. There is considerable difference in the length of the processing season at the various plants and in different parts of the State.

Footnotes Table 1 - Concluded

- Includes cider pressed from apple skins and cores. The quantity of apples used for cider in cider mills includes those used for "apple juice" in those establishments. No separate data were secured prior to 1940 when approximately 2,665,300 gallons of cider were sold as "apple juice", this term being equivalent to "sweet cider" in many cases, and about 29 percent of the total cider pressed in cider mills. In canneries, the "apple juice" first reported in 1940, is not included in cider pressed in those mills. In earlier years, apples used in canneries for "apple juice" were generally reported as used for products other than canned apples, apple sauce, and cider.
- 6/ Including "apple juice" at canning factories, but not in cider mills where apples so used are included with those for cider. Small amounts of loss and shrinkage are included. Among other products in which these apples are used are jelly, apple butter, mincemeat, food for infants, and frozen apples. In 1941, some apples were sorted out and sold to packers without processing.
- 7/ In 1941, dried skins and cores amounted to 595,300 pounds and dried pomace 823,900 pounds; in 1942, dried skins and cores 1,461,100 pounds and dried pomace 2,126,000 pounds.

Table 2. - Apples received at manufacturing plants, by districts, crops of 1937-42 1/

District	: Cider mill	s : Evaporators	: Canneries	Total
22.001.200		1,000 bushels (n		All CO CO COMMISSION OF THE PROPERTY OF THE PR
Ontario	•		inter-manus /	
1937	2,604	1,167	1,612	5,383
1938	•			-
	1,305	347	798	2,450
1939	2,912	1,153	2,190	6,255
1940	1,131	166	1,545	2,842
1941	2,274	465	2,807	5 , 546
1942	2,046	945	2,942	5 , 933
Mid-western	·			
1937	324	88	200	612
1938	236	21	44	301
1939	392	20	141	553
1940	223	15	77	315
1941	265	32	ıii	408
				•
1942	274	114	112	500
Hudson	ے صو سو			pu pu 1
1937	554	OSD	cata	554
1938	390	as	CEO	390
1939	467	ED	æ	467
1940	289	und	CMD	289
1941	336	OEC CONT	(mil)	336
1942	455	cap	=	455
Champlain				
1937	14	œ	caec	14
1938	11	æ	aio.	11
1939	15	cas :	œ	15
1940	14	ca >	- ca	14
1941	22	cas ·	ca)	22
1942	13	on on	c	~~ 13
Other	رـــ			
1937	೧೨¢	20	61	1,029
	938	30		_
1938	680	6	24	710
1939	987	34	51	1,072
1940	652	18	65	735
1941	872	40	104	1,016
1942	791	41	154	986
State Total				
1937	4,434	1,285	1,873	7,592
1938	2,622	374	866	3,862
1939	4,773	1,207	2,382	8,362
1940	2,309	199	1,687	4,195
1941	3,769	537	3,022	7,328
1942	3,579	1,100	3,208	7,887
		n include counti	AND DESCRIPTION OF THE PERSON	

The districts here given include counties as follows: 1

- Niagara, Orleans, Monroe, Wayne Ontario Dist.

Mid-western Dist. - Erie, Genesee, Wyoming, Livingston, Ontario, Yates, Seneca, Tompkins

- Columbia, Dutchess, Putnam, Westchester, Greene, Hudson Dist.

Ulster, Orange, Rockland

Champlain Dist. - Clinton, Essex

Other Dist. - All counties not included above.

Table 3. - Cider made, by districts, crops of 1937-42 1/

District	Cider mills :	Evaporators:	Canneries :	Total	
Ontario 1937 1938 1939 1940 1941	11,619 5,617 12,758 4,885 10,958 10,547	1,000 gallons	354 146 1,707 628 412 312	11,973 5,763 14,465 5,513 11,370 10,859	
1937 1938 1939 1940 1941 1942	1,534 896 1,674 867 1,069 1,128	000 600 600 600	GIID , GI	1,534 896 1,674 867 1,069 1,128	
Hudson 1937 1938 1939 1940 1941 1942	1,947 1,412 1,671 1,020 1,134 1,652		202 200 200 200 200	1,947 1,412 1,671 1,020 1,134 1,652	; 34: •
Champlain 1937 1938 1939 1940 1941 1942	49 33 40 46 68 41	CEN CEN CEN CEN CEN	co co ; es co co	49 33 40 46 68 41	
Other 1937 1938 1939 1940 1941 1942	3,345 2,704 3,807 2,518 3,416 3,207	යා යො යො යො යා	220 220 230 250 250	3,345 2,704 3,807 2,518 3,416 3,207	
State total 1937 1938 1939 1940 1941 1942	18,494 10,662 19,950 9,336 16,645 16,575	GC GC GC GC GC GC	354 146 1,707 628 412 312	18,848 10,808 21,657 9,964 17,057 16,887	

^{1/} See footnotes, Tables 1 and 2 for explanations.

Table 4. - "Apple Juice", by districts, crops of 1940, 1941, and 1942 1/

				-	-					
District	: In c	ider mi	lls	: In c	anner	ies	:	Total		
	: 1940	: 1941	: 1942	:1940:	:1940:1941:1942		:1940	:1941	: 1942	
Comment of Standard Comments of State of Standard Comments and Sta	1,	1,000 gallons			1,000 gallons			1,000 gallons		
Ontario	1,234.	1,197	1,521	695	794	347	1,929	1,991	1,868	
Mid-western	289	322	180	GEO.	Caria	Caro	289	322	180	
Hudson	305	268	826			•••	305	268	826	
Champlain	15	33	23	-	***	990	15	33	23	
Other	822	995	786_	100	12	2	822	1,007	788	
State total	2,665	2,815	3,336	695	806	349	3,360	3,621	3,685	

1/ See footnote, Tables 1 and 2 for explanations.

Table 5 - Yield of apple products from 100 pounds of fresh apples 1/

Product and district	: 1937	: 1938	: 1939 :	1940	: 1941	: 1942	
Addition from 100 more day	- Para mila	⁻ 7	~~~~~~				
Cider from 100 pounds of Ontario	7.6	apples,	gallons:	7.5	7.4	77 /	
Mid-western	7.0	7.1	6.9	7.0	7.0	7.4 7.1	
Hudson	6.9	7.1	6.8	6.9	6.7	6.9	
Champlain	6.3	6.5	7.0	7.2	6.6	6.8	
Other	6.6	6,6	6.6	6,6	6,8	6.7	
State average	7.3	7.1	7.0	7.1	7.2	7.2	

Dried apples from 100 pounds of fresh apples, pounds:
State average 12.2 12.6 12.5 11.9 12.4 12.3

Canned apples from 100 pounds of fresh apples, dozens No. 10 cans:
State average .88 .85 .83 .84 .81 .79

Apple sauce from 100 pounds of fresh apples, cases of 24 No. 2 cans: State average 2.59 2.61 2.60 2.60 2.51 2.59

I/ The quantity of product reported as manufactured from 100 pounds of fresh apples varied rather widely. The above figures are averages of reports as received, except that for cider the state average is derived from the district averages by weighting by the quantity of apples received at cider mills in each district. If weighted by individual mills, the average yields would be somewhat higher, since in the large mills which handle a relatively large proportion of the cider apples, yields ranging from 8.0 to 9.7 gallons of cider per 100 pounds of apples were reported. See footnote, Table 2, for counties included in various districts.

Table 6.- Prices received for apples at manufacturing plants, by districts, crops of 1937-42 1/

District :		: Evaporators	: Canneries :	All
	Per	r 100 pounds		
Ontario	م		Đ	
1937	\$.18	\$.33	\$.41	\$.28
1938	.23		.57	.35
1939	.15	.27	.43	.27
1940	.26	.30	.74	·53
1941	.34	.59	1.19	.81
1942	.45	1.46	1.56	1.16
Mid-western			**	
1937	.24	.26	.52	. 33
1938	.27	.25	.67	.33
1939	.19	。20	.46	.26
1940	.26	.25	.77	.39
1941	.34	.52	1.16	.58
1942	.42	1.42	1.74	.94
Hudson	044	Tothe	1014	0 74
1937	.25		_	25
		œ	යා	.25
1938	.26	œ	æ	.26
1939	.24	₩	cilia	.24
1940	.34	CIEC	CID	.34
1941	.38	CSC)	CIID	.38
1942	.40	a	COS	.40
Champlain				
1937	.21	_ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	CHIC	.21
1938	.46	යා	Click	.46
1939	.19	ca	യര	.19
1940	،30	Œ	æ	.30
1941	.26	Œ	ωn	. 26
1942	.31	Olico	\$10	.31
Other				
1937	.29	.40	.52	.31
1938	。33	。20	.80	.34
1939	.25	.18	.55	.26
1940	°33	.25	.94	.36
1941	.34	。35	1.26	044
1942	.45	1.50	2.02	.74
State average	U-70			U
1937	.22	。33	.43	.29
1938	.26	.28	.58	.34
1939	.18	.27	.43	.26
1940(revise		.29	.75	.47
1941	.34	.57	1.19	.72
1942	044	1.46	1.59	1.05
CONTRACTOR CONTRACTOR AND	9 HH	4040	20//	200/

l/ See footnotes Tables 1 and 2 for explanations. The prices reported for individual plants were "average or prevailing prices to growers during season." The averages given here, by districts, are simple averages of the reports received from the various plants within the districts. The state average and the average for all types of plants are derived from the district prices, weighted by the quantity of apples received in each district and type of plant. Bushel taken as 48 pounds of apples.

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